

Response to Office Action
Serial No. 09/781,667
Group Art Unit: 2862

Replace "partially saturated" with "at near practical saturation" in all instances in which it is used in the specification. This change is to be made on pg 13, line 9 & 23; pg 15, line 9; pg 17, lines 2,6,11,12, & 25; pg 25, line 17; pg 35, line 2; and pg 39, line 26.

Copies of the complete paragraphs in which these changes are to be made are attached. One copy is marked to show the location of the change and the second is a "clean" copy after replacement.

IN THE DRAWINGS

The Examiner has objected to the drawings on the basis that the drawings fail to illustrate the embodiment of the invention subject of claim 22. The Applicant respectfully submits that the subject matter of claim 22 is disclosed in Figures 8 and 30.

IN THE CLAIMS

23. (TWICE AMENDED) The apparatus defined in claim 1 wherein (i) the saturation inducer engages the interior side of the casing with magnetic flux but does not saturate the casing through to the exterior side, (ii) the oscillating magnetic flux generated and transmitted by the transmitter means induces eddy currents within the portion of casing at near practical saturation, partially saturated portion of the casing, (iii) receiver detects oscillating magnetic flux generated within electrically conductive media located exterior to the casing by eddy currents induced within the media by the oscillating magnetic flux emitted from the partially saturated casing at near practical saturation.

24. (AMENDED) The apparatus defined in claim 23 further comprising means to modify the partially saturated area of the casing at near practical saturation in a controllable manner in order that the oscillating magnetic flux emitted from the exterior side of the partially saturated casing at near practical saturation is directed in an intended manner.